

**ABSTRACT****PROCESS AND APPARATUS FOR IRRADIATING PRODUCT PALLETS**

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and an apparatus for irradiating products by means of high  
energy X-ray beam source (1) in an installation having an  
irradiation chamber (2), said process comprising the  
following steps, controlled by controlling means:
- 10 - determining the density of the products to be  
irradiated,
- in order to irradiate said products as a stack  
predetermining, on the basis of said density, the  
optimal size of the product stack able to optimize the  
15 throughput of the installation and/or the dose  
uniformity ratio (DUR),
- in the irradiation chamber (2), loading products as a  
stack onto rotation means (3) located in front of the X-  
ray beam source (1),
- 20 - while rotating the rotation means around a rotation axis  
(10), irradiating said products from a lateral side of  
said product stack.

(Figure 3a)